

ABSTRACT

The present invention provides a method for highly producing a recombinant protein in a plant storage organ and a GLP-1 derivative. The plant storage organ in which the recombinant protein is highly produced is obtained by transformation with the use of a vector which comprises a recombinant protein gene, a cytokinin-related gene, a drug-resistant gene and a removable DNA element, in which the cytokinin-related gene and the drug-resistant gene exist in the positions so that they can behave together with the DNA element, while the recombinant protein to be expressed in the plant storage organ exists in the position so that it would not behave together with the DNA element. The GLP-1 is produced by using the method, and a derivative having been stabilized against enzymatic digestion is further provided.